

Recommendation 2000-2 Phase 2 Assessments

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Goals

- **Detailed assessments of confinement ventilation and other safety system operability**
- **Commence Phase 2 assessments by September 2001**

Overall Process

- **Develop lists of Vital Safety Systems**
- **Perform Phase 1 assessments**
- **Develop and test confinement ventilation assessment criteria**
- **Select Phase 2 assessment candidates**
- **Apply criteria to Phase 2 assessments**

Develop Lists of Vital Safety Systems

- **Definition:**

The term vital safety system, as used within this implementation plan, is understood to mean safety-class systems, safety-significant systems, and other systems that perform an important defense in depth safety function

- **Input for Phase 1 assessments and for Federal personnel qualification**
- **Reference for System Engineer program implementation**
- **Due November 2000 for ALL defense Nuclear Facilities**

Phase 1 Assessments

- **Staged to spread the workload**
- **Initial look at system operability-consensus Criteria, Review and Approach Document (CRAD)**
- **Start in November 2000, complete for all specified facilities by June 2001**
- **Input to fire safety Comprehensive Study**

Develop and test confinement ventilation assessment criteria

- **Expert team from DOE, contractors, and industry organizations**
- **EM and DP jointly run development with EH, EFCOG, and INPO help**
- **Design the confinement ventilation criteria to be reusable on other systems**

Develop and test confinement ventilation assessment criteria continued

- **Disciplines needed:**
 - **confinement ventilation systems**
 - **system design principles**
 - **safety and reliability**
 - **equipment operations**
 - **facility operations**
 - **maintenance**
 - **Health Physics, fire protection, IH, assessment, other disciplines**

Develop and test confinement ventilation assessment criteria continued

- **Consider NRC, INPO, DOE criteria and pick best features**
- **Meet to finalize the criteria (Savannah River may host)**
- **Pick test facilities and testers**
- **Perform a test assessment**
- **Refine the criteria**
- **Issue criteria for CSO use**

Select Phase 2 assessment candidates

- **Review Phase 1 results to pick facilities and systems for vertical slice ISM-like reviews**
 - **Joint review by EM, DP, Field, EH**
 - **Confinement Ventilation Systems are a given**

Conduct Phase 2 assessments

- **Similar to ISM verifications**
 - **Field managers select team leaders**
 - **Team leaders recruit teams locally, from other teams, or program offices**
 - **Tailor confinement ventilation criteria for local use**
 - **Review documentation**
 - **Walk down systems**
 - **Estimate system capability**

2000-2 Relation to Fire Safety Initiative

- **Phase 1 assessments under 2000-2 and fire safety initial reviews feed into fire safety Comprehensive Study**
- **Comprehensive Study assessments comparable to Phase 2 assessments**
- **Comprehensive Study plan is a 2000-2 deliverable**

Next Steps

- **Finish VSS lists and Phase 1 assessments**
- **Develop confinement ventilation assessment criteria**
- **Set up joint group to evaluate Phase 1 results**
- **Start assembling Phase 2 team leaders and members**